Cosmic Origins Program Analysis Group

Shouleh Nikzad

COPAG Executive Committee Chairperson

9 January 2023

agenda

- Introduction Shouleh Nikzad 5 mins
- Stars SIG Rachael Beaton 10 mins
- Galaxies SIG Benne Holwerda 10 mins
- UV STIG Stephan McCandliss 10 mins
- IR STIG Meredith MacGregor and Jake Connors 10 mins
- AGN SIG Shobita Satyapal 10 mins
- Discussion Stephan McCandliss – ideas for a Habitable Worlds Observatory Science Interest Group

What is Cosmic Origins Program Analysis Group (COPAG)?

The COPAG serves as a community-based, interdisciplinary forum for soliciting and coordinating community analysis and input in support of Cosmic Origin objectives and of their implications for architecture planning and activity prioritization and for future exploration. It provides findings of analyses to the NASA Astrophysics Division Director.

- Science
  - future great observatories (c.f. Astro 2020 decadal survey)
  - Science gaps & precursor science
- Technology
  - Astrophysics technology gaps
  - Biennial Technology Report
- People
  - State of the profession
  - Diversity, Equity and Inclusion

Executive Committee

Member	Term	Institution
Shouleh Nikzad (Chair)	April 2022–October 2024	Jet Propulsion Laboratory
Stephan McCandliss	November 2018–October 2024	Johns Hopkins University
Christine Chen	November 2020–January 2024	Space Telescope Science Institute
Chris Hayward	November 2020–January 2024	Flatiron Institute
Sabrina Stierwalt	November 2020–January 2024	Occidental College
Hsiao-Wen Chen	April 2022–October 2024	Univeristy of Chicago
Enrique Lopez Rodriguez	April 2022–October 2024	Stanford University
Rachael Beaton	January 2023–October 2025	Space Telescope Science Institute
Sanchayeeta Borthakur	January 2023–October 2025	Arizona State University

Manuel Bautista (Executive Secretary, Ex-Officio)	NASA HQ
Peter Kurczynski (COR Program Office, Ex-Officio)	NASA/GSFC

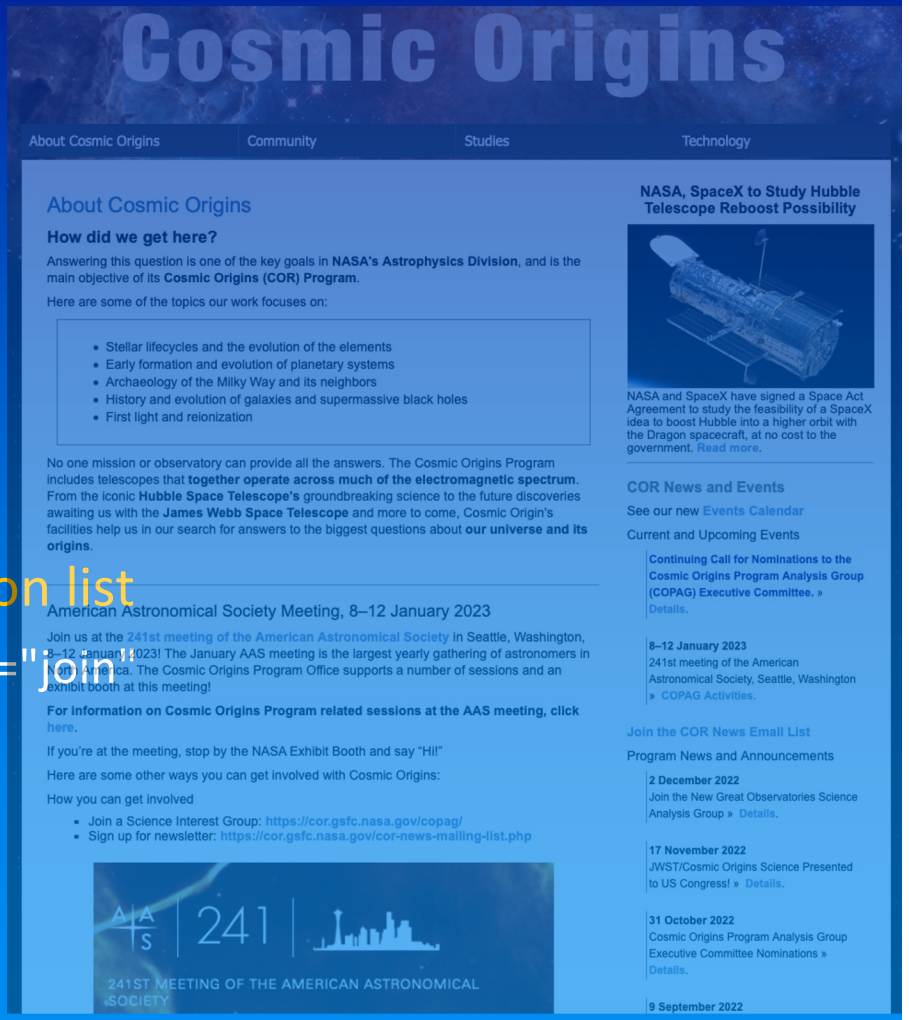
Welcome New Members!

S	ril 2022–	tution
Ch	November 20	Laboratory
	November	s University
		escope Science
		itute
Chris Hayw	No 2020–January 2024	Flatiron Institute
Sabrina Stierwalt	mber 2020–January 2024	Oc
Hsiao-Wen Chen	April 2022–October 2024	
Enrique Lopez Rodriguez	April 2022–October 2024	
Rachael Beaton	January 2023–October 2025	
Sanchayeeta Borthakur		

Manuel Bautista (Executive Secretary, Ex-Officio)	NASA HQ
Peter Kurczynski (COR Program Office, Ex-Officio)	NASA/GSFC

How can I get involved?

- Visit the Cosmic Origins website
  https://cor.gsfc.nasa.gov
  https://cor.gsfc.nasa.gov/copag/
- Join the Cosmic Origins email distribution list
  COR-News-join@lists.nasa.gov with Subject="join"
- Join a Science Interest Group
  https://cor.gsfc.nasa.gov/sigs/sigs.php



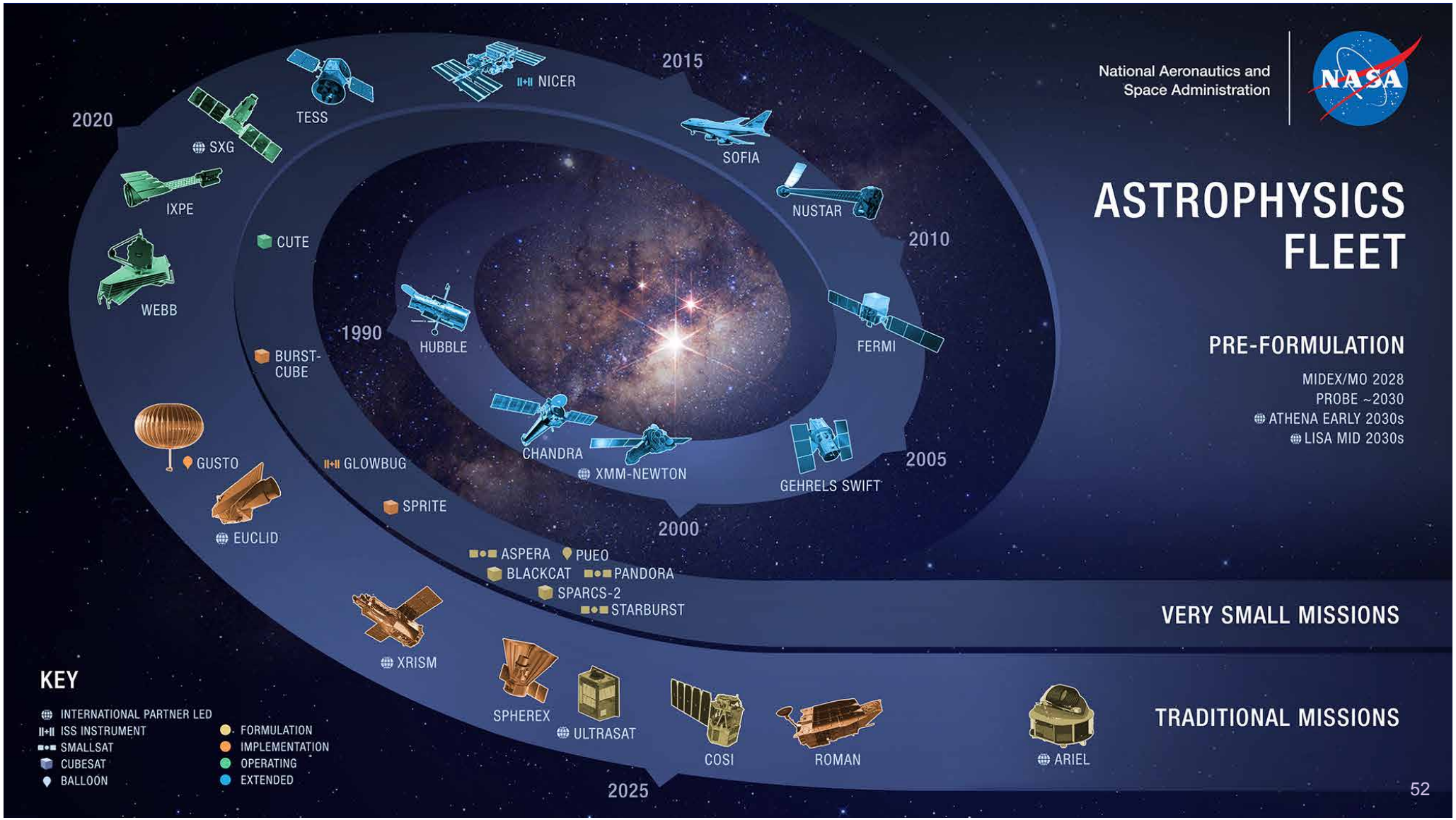
https://cor.gsfc.nasa.gov

How can I get involved?

Habitable Worlds Observatory

- Science Interest Group?
- Discussion later in this session
- Stay connected by joining an email distribution list https://forms.gle/XEdp2H5vhRmseSJbA

Extra slides


National Aeronautics and Space Administration
NASA
ASTROPHYSICS FLEET
PRE-FORMULATION
MIDEX/MO 2028
PROBE ~2030
ATHENA EARLY 2030s
LISA MID 2030s
VERY SMALL MISSIONS
TRADITIONAL MISSIONS
2020
2015
2010
2005
2000
1990
2025
TESS
NICER
SXG
SOFIA
IXPE
NUSTAR
CUTE
WEBB
HUBBLE
FERMI
BURST-CUBE
CHANDRA
XMM-NEWTON
GEHRELS SWIFT
GUSTO
GLOWBUG
SPRITE
EUCLID
ASPERA
PUEO
BLACKCAT
PANDORA
SPARCS-2
STARBURST
XRISM
SPHEREX
ULTRASAT
COSI
ROMAN
ARIEL
KEY
INTERNATIONAL PARTNER LED
ISS INSTRUMENT
SMALLSAT
CUBESAT
BALLOON
FORMULATION
IMPLEMENTATION
OPERATING
EXTENDED